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Part VI

Water Resources Council

Coal Liquefaction Demonstration Plant Near Morgantown, W. Va.; Water Assessment Report

WATER RESOURCES COUNCIL

Coal Liquefaction Demonstration Plant Near Morgantown, W. Va. Water Assessment Report

AGENCY: United States Water Resources Council.

ACTION: Notice of water assessment report for public review and comment.

SUMMARY: This notice incorporates the Water Assessment Report prepared by the Water Resources Council staff under the provisions of Section 113(b) of the Federal Nonnuclear Energy Research and Development Act of 1974, as amended.

DATE: Comments on this report are due on or before September 22, 1980.

ADDRESS: Send comments to: Acting Director, U.S. Water Resources Council, 2120 L Street, N.W., Washington, D.C. 20037.

FOR FURTHER INFORMATION CONTACT: Frank S. Davenport, Program Leader or Ronald L. Scullin, Staff Specialist, U.S. Water Resources Council, 2120 L Street, N.W., Washington, D.C. 200–37, Phone: 202–254–6352.

Dated: August 15, 1980.

Gerald D. Seinwill,

Acting Director.

Contents

Preface

I. Principal Findings
- A. Introduction
- B. SRC–II Demonstration Project
- C. SRC–II Commercial Project
- D. Further Action Needed

II. Project Description
- A. Location
- B. SRC–II Project.
- C. Coal Preparation
- D. Liquefaction Process
- E. Waste Containment and Treatment
- F. Water Reclamation
- G. Base Resources
- H. Schedule

III. Project Water Requirements
- A. Process and Cooling Water
- B. Electric Power Generation
- C. Coal Mining and Land Reclamation
- D. Navigation

IV. Water Supply Availability
- A. Background
- B. Surface Water
- C. Groundwater
- D. Basin Consumptive Use
- E. Water Quality Conditions
- F. Policy for Consumptive Use Makeup

V. Water-Related Impacts
- A. SRC–II Versus Other Offstream Uses
- B. Navigation
- C. Water Quality

Preface

The U.S. Water Resources Council staff (WRC) has prepared this report under provisions of Section 13(b) of the 1974 Federal Nonnuclear Energy Research and Development Act, as amended. The report is the result of an assessment of water requirements and water supply availability for a proposed coal liquefaction demonstration project at Fort Martin, near Morgantown, West Virginia.

WRC was requested to perform this assessment by the U.S. Department of Energy (DOE) on February 11, 1980. WRC entered in to a Memorandum of Agreement with the Ohio River Basin Commission (ORBC) to perform technical phases of the assessment and to prepare a technical report. The ORBC formed a study committee including representation from the States of West Virginia and Pennsylvania, U.S. Army Corps of Engineers, U.S. Environmental Protection Agency, and U.S. Department of Energy. The Technical report, completed and approved by the ORBC in June 1980, was the principal supporting document for this report.

Publication of this report in the **Federal Register** is mandated under provisions of Section 13 to enable public review and comment during a 30-day period. Comments on the report are to be submitted to Gerald D. Seinwill, Acting Director, U.S. Water Resources Council, 2120 L Street, N.W., Washington, DC 20037.

After the 30-day review period, WRC staff will analyze the comments received and will forward the comments, the WRC analysis, and the water assessment report to the Secretary of the Department of Energy.

DOE's industrial partner, Pittsburgh and Midway Coal Mining Company (a subsidiary of Gulf Oil), expects that—subject to a successful demonstration of the technical operability, economic viability, and environmental acceptability of the solvent-refined coal (SRC) process—the project will be expanded to a full-scale commercial plant. Pursuant to Subsection 13(c) of the above-cited Act, WRC will prepare a subsequent full assessment of the water resources available for the commercial-scale coal liquefaction development. This 13(b) report includes only a preliminary assessment of the commercial project as currently planned. Final design of the commercial facility will be based largely on the experience gained from operation of the SRC–II demonstration project.

Chapter I. Principal Findings

A. Introduction

The water consumption figures in this assessment of the proposed SRC–II (solvent-refined coal) demonstration project are approximately 50 percent greater than those in the draft Environmental Impact Statement (EIS) prepared by the Department of Energy. The lower EIS figures resulted from design modifications that had not yet been defined when the assessment data analysis was conducted. The project water consumption figures in this report are also based on summer conditions when consumption will be highest. Streamflow assessments at low-flow conditions have not been adjusted for water conservation measures for offstream users or for low-flow augmentation from Stonewall Jackson Reservoir, which is under construction (i.e., primarily land acquisition) and presently under litigation. The streamflow conditions do include other current augmentation. Thus, this assessment is based on a "worst case" condition for water availability for the SRC–II project.

B. SRC–II Demonstration Project

Under most flow conditions, the Monongahela River has enough water to support the combined effect of the SRC–II demonstration project and the increased consumption by other sectors of the economy through 1990 without reduction to streamflow below that projected to meet navigation requirements (including SRC–II barge traffic) and to meet water quality standards in West Virginia and Pennsylvania.

There are, however, exceptions during various low-flow conditions. For example, during minimum navigation flow (i.e., recurrent drought of record with low-flow augmentation), the total increased consumption will reduce streamflow 12 percent below 1990 navigation needs at Maxwell lock and dam. Half of this deficit would be due to the SRC–II demonstration project.

In addition, the Monongahela River at lock and dam 4 in Pennsylvania does not currently have the estimated streamflow necessary to achieve the total dissolved solids standard during 7-day, 10-year low-flow conditions. The SRC–II demonstration project would contribute only about 1 percent to the projected streamflow deficit by 1990.

The projected increase in new offstream consumptive uses in the basin will be approximately 18 cubic feet per second (cfs) by 1990. The SRC–II demonstration project will account for half of this increase. The 8.7 cfs, however, is only 7 percent of the total 133 cfs consumption (existing and new uses including SRC–II) projected for 1990.

The 8.7 cfs represents 2.4 percent of the 7-day, 10-year low flow (360 cfs) at

lock and dam 8 and 1.3 percent of the present 7-day, 10-year low flow (650 cfs) downstream at lock and dam 4.

The economic capacity of lock and dam 7 (Pennsylvania) is projected to be exceeded by 1988 if coal for the SRC–II demonstration project is transported by barge. Economic capacity is determined by factors such as congestion at the lock, competing traffic modes, etc., rather than the availability of water.

Groundwater at the site is insufficient to meet project water requirements. Further investigation should determine whether groundwater can be used as a supplemental source of water during low-flow conditions.

C. SRC–II Commercial Project

During low flows, the SRC–II commercial project, together with other increased consumptive uses projected for the basin by 2020, will worsen the streamflow deficits at Maxwell lock and dam, without further augmentation. Moreover, the Monongahela River at lock and dam 8 near the plantsite will not have sufficient flow to meet the dissolved oxygen standard in West Virginia for the 7-day, 10-year low flow. The project would contribute less than 2 percent to the estimated deficit in the flow required to meet Pennsylvania's total dissolved solids standard at lock and dam 4 under the 7-day, 10-year low-flow conditions in 2020.

The projected new consumptive uses in the basin will need 52 cfs by 2020. The SRC–II commercial project will account for 23 cfs or 44 percent of the increase. This 23 cfs, however, is only 10 percent of the total 167 cfs consumption (existing and new uses including SRC–II) projected for 2020. This 23 cfs is about 6 percent of the 7-day, 10-year low flow at back and dam 8 and about 4 percent of the 7-day, 10-year low flow downstream at lock and dam 4.

A followup Section 13(c) water assessment will more accurately assess the water availability and related water impacts of the proposed SRC–II commercial project after results of the demonstration project are available.

D. Further Action Needed

A plan of operation should be developed for the SRC–II demonstration project (and ultimately the commercial project) to allow for reduced water consumption and/or alternate water sources during critical low flows in the Monongahela River. Offstream storage and conjunctive use of groundwater are two options to consider.

Unless substantive action is taken during critical flow periods, projected river flow under present basin conditions will not be sufficient to meet the West Virginia dissolved oxygen standard in 2020 at lock and dam 8, the Pennsylvania total dissolved solids standard for 1990 and 2020 at lock and dam 4, and the projected navigation flow required at Maxwell lock and dam in 1990 and 2020.

To resolve the basin's present and future water problems, West Virginia and Pennsylvania need to develop a coordinated water management program for the Monongahela River Basin. Under a basin-wide plan, the impacts of competing water uses during the critical low-flow conditions could be reduced (or offset) by various water management options. The options include: Low-flow augmentation from Stonewall Jackson Reservoir; water conservation; temporary curtailment of offstream uses; additional storage and/or reallocation of storage at basin reservoirs, including Stonewall Jackson, Tygart, and Stonecoal; additional water storage sites; and development of supplemental groundwater resources.

The water management program should balance all competing uses against available water supplies. Particular attention should be given to providing critical flows at key points along the river. A predictable water budget would help provide for beneficial economic, social and environmental conditions throughout the basin.

In addition to developing a water budget, West Virginia, Pennsylvania, the Ohio River Sanitation Commission, and the U.S. Environmental Protection Agency (EPA) should establish a water quality program that would provide for additional water quality monitoring and analysis (particularly total dissolved solids) along the Monongahela River. The monitoring and analysis should provide the information needed to identify and characterize water quality problems in specific stream reaches. This effort can also lead to further coordination of water quality policies between West Virginia and Pennsylvania.

The instream needs of fish and wildlife must be included in a water management program. Under a Section 13(c) assessment, a streamflow management study should be conducted to assess the SRC–II commercial project and other consumptive uses of their combined effects on fish and wildlife habitat in the Monongahela River.

Chapter II. Project Description

A. Location

The proposed project site is located near Morgantown at Fort Martin, West Virginia, along the Monongahela River, approximately 2 miles south of the West Virginia-Pennsylvania State line. Figure 1 shows the Monongahela River Basin where the proposed project is to be located. Figure 2 illustrates the site plan of the proposed project. The project site is bounded on the southeast by the Monongahela River, on the east by the Fort Martin Power Plant (Monongahela Power Company), on the north by the West Virginia-Pennsylvania State line, and on the west and south by land in private or corporate ownership. Except for a narrow floodplain along the river, the site is hilly, at an elevation of about 1108 feet mean sea level or 311 feet above the river.

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Figure 1
Map of Monongahela River Basin

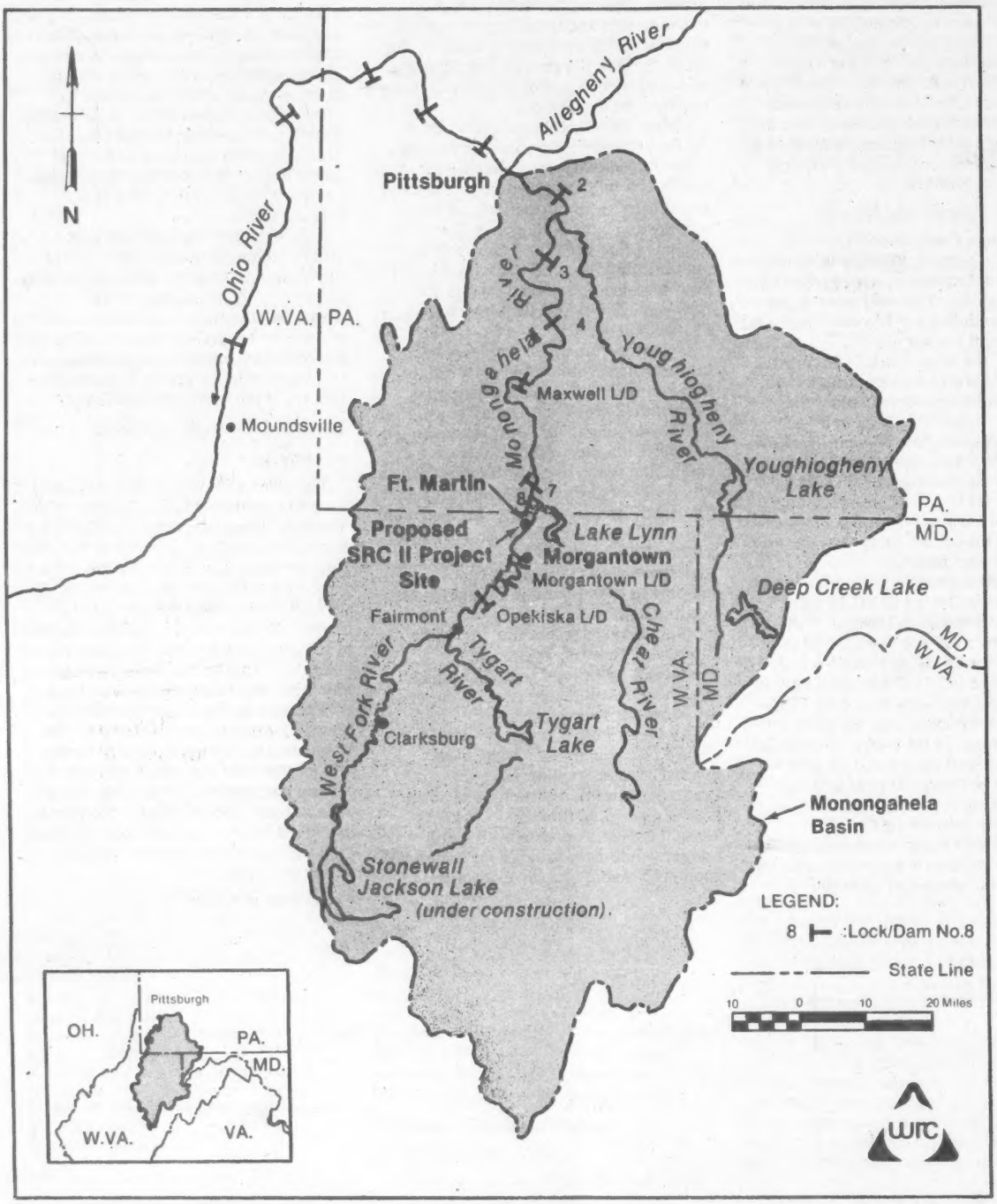
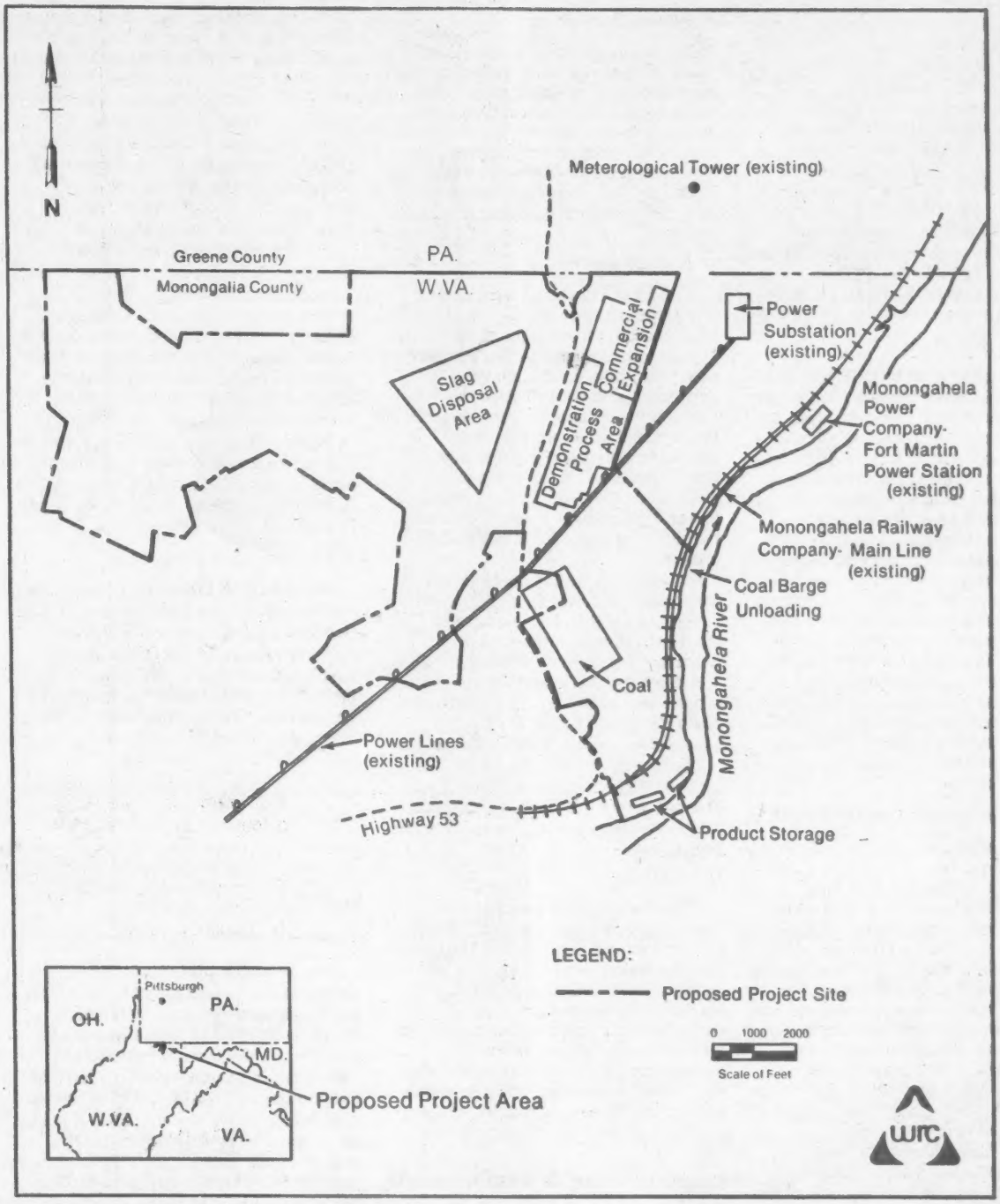


Figure 2
Site Plan of Proposed Project



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B. SRC–II Project

The demonstration project facilities have been designed to produce a solvent-refined coal (SRC) product of low-sulfur distillate fuel oil from Pittsburgh seam coal. The demonstration plant will produce approximately 20,000 barrels of oil equivalent per day and the commercial plant approximately 100,000. Byproducts include synthetic natural gas, mixed liquid butanes, propane, naphtha, ammonia, elemental sulfur, and tar acids.

C. Coal Preparation

Coal will be delivered by barge to a storage area where conveyors will transport the coal to pulverizing-drying equipment. The fine coal is then transferred to surge storage bins from which it is withdrawn for slurry mixing.

D. Liquefaction Process

The demonstration SRC–II facility will liquefy 6000 tons of bituminous coal per day. The pulverized feed coal is mixed with a recycled hydrocarbon-mineral residue slurry stream from the process and, together with hydrogen-rich gases, the mixture is pumped through a preheater to the dissolver. In the dissolver, hydrogenation and liquefaction reactions convert the coal into liquid and gas. By a series of separation, distillation, and gasification steps, the process produces: (1) A high-purity hydrogen stream that is recycled to the dissolver, (2) a methane-rich stream that is upgraded to produce a pipeline-quality synthetic natural gas, and (3) a methane-rich stream, part of which is used as plant fuel; the rest is converted to synthetic natural gas in the methanation step.

E. Waste Containment and Treatment

The demonstration plant, which is designed to produce zero liquid waste discharge under normal operating conditions, has facilities to contain and reclaim runoff from a 24-hour rainfall event having a 10-year recurrence (the 10-year, 24-hour storm). The wastewater discharge is eliminated through evaporation in the cooling towers plus a water reclamation and recovery system in which wastewaters are pretreated and evaporated. The condensates produced in this evaporation process are recovered for reuse, while the sludge is reincinerated to destroy organic materials. The residue from the incinerator will be disposed of in accordance with the requirements of the Resource Conservation and Recovery Act (Pub. L. 95–609).

Zero-discharge is presently being considered for the SRC–II demonstration project. Operation experience from the demonstration project should help resolve questions on the efficiency of wastewater treatment and disposal of solid plant wastes.

F. Water Reclamation

The water reclamation system will treat: process wastewater, leachates from the slag disposal area and coal storage piles, and contaminated rain runoff from the process area and from all product storage and shipping areas. The system will also treat process liquids spilled in the main process area and in the product storage and shipping areas.

G. Base Resources

Coal for the demonstration project will be mined near the Ohio River at Moundsville, West Virginia (see Figure 1). The source of coal for the commercial phase may also be Moundsville, depending on how well the coal characteristics meet the requirements of the demonstration project. Approximately 6,000 tons per day (tpd) will be required for the demonstration phase and 30,000 tpd for the commercial phase. This tonnage is based on a 90-percent load factor for the SRC–II project.

It is currently anticipated that the Monongahela Power Company will supply the electrical power service for the demonstration project. The demonstration project will require about 75 megawatts (MW) and the commercial project about 225 MW. The source of electrical power supply for the commercial project is still under review.

The source of water for the SRC–II project will be the Monongahela River. The raw water quality requires some pretreatment before it is acceptable for project use.

H. Schedule

If the decision is to proceed with the demonstration project, preliminary site preparation will begin in late 1980, with actual construction beginning in the spring of 1981. Scheduled operational startup would be in 1985. The demonstration phase would operate for approximately 5 years. If the demonstration phase is successful, the project will be expanded to a full-scale commercial facility. Operation of the commercial phase will begin around 1990.

Chapter III. Project Water Requirements

Consumptive water use from the Monongahela River is 8.7 cubic feet per second (cfs) for the demonstration plant and 23.0 cfs for the commercial plant.

A. Process and Cooling Water

The cooling tower consumes the largest amount of water. The second largest use is the process reaction, primarily for the production of hydrogen. Water is also lost in vents as steam, in the incinerators from combustion, and in the water reclamation system. In the demonstrations phase, approximately 10 percent (0.9 cfs) of the water is consumed for processing and 90 percent (7.8 cfs) for cooling. In the commercial phase, about 19.6 percent (4.5 cfs) is consumed for processing and 80.4 percent (18.5 cfs) for cooling.

The draft Environmental Impact Statement (EIS) reports a lower average consumption of 3.8 cfs for the demonstration plant, with a maximum summer demand of 5.8 cfs when cooling tower evaporation is the greatest. The lower EIS figures resulted from design modifications that had not yet been defined when the assessment data analysis was conducted. These lower EIS values may be reduced even more, since further plant design changes to reduce consumption are currently being considered.

B. Electric Power Generation

The 75 MW of electricity required by the SRC–II demonstration project will be provided through a power grid that receives electricity from a network of electric power plants, which includes the Monongahela Power Company. The water consumed for generating the 75 MW (approximately 1 cfs) was not included in this assessment.

C. Coal Mining and Land Reclamation

Water consumed for coal mining and land reclamation at Moundsville, West Virginia, is only an insignificant portion of the nearby water available along the Ohio River mainstream.

D. Navigation

Current plans call for coal to be barged to the SRC–II project. Therefore, for this assessment, coal traffic along the Ohio and Monongahela Rivers was assumed to be 6,000 tpd from 1985 to 1989 when the demonstration SRC–II is in operation and 30,000 tpd from 1990 to 2020, when the commercial SRC–II is in operation. The lock and dam (L&D) system on the Monongahela River does not generate hydroelectric power. The L&Ds upstream have higher numbers than those downstream.

Chapter IV. Water Supply Availability

A. Background

The Monongahela and the Allegheny Rivers comprise the headwaters of the Ohio River. The Monongahela River drains 7,384 square miles. It lies in the eastern portion of the Ohio River Basin, and includes southwestern Pennsylvania, northern West Vriginia, and extreme western Maryland.

The U.S. Army Corps of Engineers (Corps) maintains and operates a series of locks and dams along the Ohio and Monongahela Rivers. Presently, seven locks and dams in Pennsylvania (including Emsworth on the Ohio River) and three in West Virginia provide a minimum 9-foot depth for navigation along the Monongahela River from Pittsburgh, Pennsylvania, upstream to Fairmount, West Virginia. The proposed project site is located in the navigation pool of lock and dam 8 (see Figure 1). The Monongahela River and its two major upper tributaries, the West Fork and Tygart Valley Rivers, drain the 2,700 square-mile drainage area upstream of the project.

The West Fork River drains 882 square miles. Its flow is essentially uncontrolled except for two U.S. Soil Conservation Service small watershed projects and Stonecoal Lake. With the completion of Stonewall Jackson Reservoir, approximately 12 percent of the West Fork Basin will be controlled.

Stonewall Jackson Reservoir under construction (i.e., primarily land acquisition) by the Corps is presently scheduled for completion by 1987, although the project is presently under litigation. (On July 11, 1974, the Upper West Fork River Watershed Association filed suit in the U.S. District Court for the Northern District of West Virginia seeking an injunction against further prosecution of the project base, primarily on alleged inadequacy of the project EIS. On May 3, 1976, the Federal District Court dismissed the action by the Upper West Fork River Watershed Association. The Plaintiff appealed before the U.S. Court of Appeals (Fourth Circuit) on January 13, 1977. The U.S. Court of Appeals (Fourth Circuit) affirmed the decision of the District Court on May 9, 1977. The Upper West Fork River Watershed Association and other environmental interest groups filed suit on April 21, 1980, in the U.S. District Court of the District of Columbia, alleging that the Corps used the wrong interest rate for the project, exceeded the Congressional authorization in the scope of the project, and wrongfully included water quality benefits.) The 75,000 acre-foot storage reservoir is to be located in northern West Virginia on the West Fork River, upstream of the proposed SRC–II site. The reservoir project is authorized for flood control, water supply, water quality maintenance, and recreation. Up to 80 cfs will be released during low-flow periods for water quality augmentation.

Tygart Dam controls 86 percent of the 1,374 square mile drainage area of the Tygart Valley Basin. In 1938, the Corps constructed Tygart Lake for flood control and low-flow augmentation. The Corps presently regulates flow at Tygart Lake Dam to maintain a minimum flow of 340 cfs at L&D 8, about 2½ miles downstream of the project site. During periods of minimum navigation flow (i.e., recurrent drought of record with low-flow augmentation), most of Monongahela River flow upstream of its confluence with the Youghiogheny River comes from controlled releases from Tygart Lake. The approximate storage at Tygart Lake is 279,000 acre-feet.

B. Surface Water

The Corps developed several flow frequencies for the Monongahela River. Table 1 shows these figures for six locks and dams (L&D). See Figure 1 for the location of the L&Ds. Streamflows are based on existing (1980) levels of basin development, including current augmentation.

Table 1.—*Flow Data for Monongahela River* [1]

[In cubic feet per second]

Lock and dam	River mile	Mean	80 pct exceedence	7-day, 10-year	7-day, 50-year	Minimum navigation flow
2	11.2	12,300	2,970	1,150	910	750
4	41.5	8,980	1,700	650	510	315
Maxwell	61.2	8,580	1,620	620	495	325
7	85.0	8,090	1,520	590	480	340
8	90.8	4,580	790	360	350	340
Opekiska	115.4	4,300	740	340	340	340

[1] Low-flow augmentation at Stonewall Jackson Reservoir not included.

The project site is approximately 2.5 miles upstream of L&D 8. Present mean flow at L&D 8 is 4580 cfs; the 7-day, 10-year low flow is 360 cfs; and the minimum navigation flow is 340 cfs.

C. Groundwater

Although available information is insufficient for a complete assessment of groundwater quantity and quality, several general observations can be made.

Pittsburg & Midway Coal Mining Company, the project industry participant, has recently explored the groundwater availability. Their September 1979 investigation concluded that local deposits of unconsolidated materials (alluvium, soils, and mine spoils) "are not an important source of groundwater because of limited areal extent and thickness, or impermeability * * *" Springs and shallow wells in the area reportedly yield from 0.0022 to 0.0067 cfs. Recent data are unavailable for deeper Allegheny and Pottsville aquifers; however, according to earlier investigations, the Allegheny aquifer would yield less than 0.0056 cfs, which may be sufficient for some industrial and public water use in central and northeastern Monongalia County. The Pottsville aquifer reportedly yields upwards of 0.56 cfs, with an average of about 0.10 cfs in the portions of Monongalia County near the proposed project site. Groundwater should be further investigated as supplemental water source for meeting SRC–II water requirements during low-flow conditions.

D. Basin Consumptive Use

There is no water use allocation program in operation for the Monongahela River Basin. The Pennsylvania Department of Environmental Resources has proposed such a program, which will be brought before the State legislature this year. The program would affect offstream users withdrawing 10,000 gallons per day or more.

Present and future total consumptive withdrawals have been estimated for the basin, including withdrawals by the municipal, industrial, power, and agricultural sectors. Table 2 presents the cumulative consumptive withdrawals from selected upstream to downstream L&Ds in the basin.

Table 2.—*Estimated Cumulative Consumptive Withdrawals from Monongahela River*[a]

[In cfs]

	1980	1990	2020
West Virginia:			
L&D 8	78	80	87
Pennsylvania:			
L&D 7	82	84	91
L&D 4	115	121	133
L&D 2	115	124	144

[a] Does not include SRC–II project.

The estimated consumption of the Monongahela River in West Virginia will increase 2 cfs by 1990 and 9 cfs by 2020. Similarly, the estimated consumption in Pennsylvania will increase approximately 9 cfs by 1990 and 29 cfs by 2020.

Information on future consumptive groundwater withdrawals in the basin is not available. However, the quantity is expected to be relatively small. Less recent use data (1964) on surface and groundwater sources suggest that groundwater supplied less than 3 percent of the water used in the basin. Groundwater supplied farm, domestic, and industrial water users, but groundwater has not been used to meet large water requirements of powerplants.

E. Water Quality Conditions

Water quality policies for the Monongahela River are governed by the West Virginia Department of Natural Resources and the Pennsylvania Department of Environmental Resources. From the water quality plans of both States, three parameters were selected as pertinent to this assessment: dissolved oxygen (DO), pH, and total dissolved solids (TDS). Table 3 presents the current standards for these parameters at two streamflow points for which adequate data were available. West Virginia specified streamflows to maintain minimum water quality standards at L&D 8. For the stretch of river in Pennsylvania, streamflows to maintain minimum quality standards were projected for L&D 4. This is a location with the most available data, but not necessarily the worst water quality conditions.

Table 3.—*Selected Water Quality Standards; Monongahela River*

	Water quality criteria	Standard	Specified streamflow (cubic feet per second)		
			1980	1990	2020
West Virginia: L&D 8	DO	≥4 mg/l	345	345	345
	pH	≥6	345	345	345
	TDS	(1)	(1)	(1)	(1)
Pennsylvania: L&D 4	DO	≥5 mg/l	1,140	[2]400	[2]600
	pH	6 to 9			
	TDS	<500 mg/l month avg	1,660	2,230	2,800
		<750 mg/l daily avg	1,100	1,490	1,860

[1] None.
[2] State-recommended treatment levels would reduce flow requirement.

The overall water quality as measured by DO, pH, and TDS in the Monongahela River is generally improving. The Ohio River Sanitation Commission (ORSANCO), an interstate water quality agency, assessed water quality data from 1962 to 1976 for L&D 4 in Pennsylvania. Violations for DO and TDS were most often recorded in the 1960s, but the trend toward acceptable limits improved in the 1970s. Although the frequency of pH violations has also improved, some local pH problems still remain. Moreover, the pH relationship to flow has not been clearly established.

Recent (1977–1979) water quality data from the Storage and Retrieval (STORET) system of the U.S. Environmental Protection Agency (EPA) show a continued improvement in river quality. Average values for DO, pH, and TDS at L&D 4, L&D 7, L&D 8, and Morgantown L&D were within State water quality standards, although extreme values for pH dropped below the standard five times at L&D 7 and once at L&D 8.

Of particular concern in the Monongahela River is the accumlative concentration of TDS. Unlike many other pollutants, TDS are not "assimilated" in streams, so the accumulated TDS create a loading problem downstream.

This is particularly significant, because the Monongahela River flow does not substantially increase except at the confluence with the Cheat and Youghiogheny Rivers (see Figure 1). Thus, the TDS loadings are not well diluted along significant portions of the river. In West Virginia, the Monongahela River TDS loadings are not presently a water quality problem. Downstream in Pennsylvania, the TDS accumulation is a problem until flow from the Youghiogheny River dilutes the loadings.

Both States recognize that increased monitoring of TDS in the Monongahela River is needed to better characterize TDS problems.

The Pennsylvania TDS instream standards of less than 500 milligrams per liter (mg/l) average monthly and 750 mg/l daily are based on EPA secondary guidelines for potable water. Most public water utilities along the river do not treat raw water to remove TDS. Therefore, Pennsylvania has applied the drinking water TDS standard as an instream standard to ensure that the TDS in potable water coming from municipal water treatment facilities is acceptable.

Pennsylvania estimates that the Monongahela River now contains up to five times the TDS concentration than that to be expected from natural conditions. The State projects that TDS loadings from coal mining will continue to increase, so that by 2020 approximately 80 percent of the TDS problem will come from new mining activities and from the treatment required to satisfy discharge requirements for acid mine drainage.

Coal mined for the SRC–II demonstration project would not contribute to this specific TDS problem because the coal would be mined downstream from the Monogahela River Basin.

Present TDS levels in the river are not known to adversely affect fish and wildlife.

F. Policy for Consumptive Use Makeup

The Pennsylvania Department of Environmental Resources has an administrative policy requiring that water users make up consumptive use losses during low-flow conditions. West Virginia presently has no policy on makeup water during low flow.

Under the Pennsylvania policy, when the river flow drops below the streamflow necessary to meet water quality standards, offstream diversions of new or increased consumptive uses, including interbasin transfers, shall not further diminish the flow of the stream. Under such flow conditions, either consumptive uses are curtailed or compensating releases must be provided from storage. Streamflow criteria are specified to meet water quality standards. If streamflow criteria for various water quality standards differ,

the higher streamflow may be required to: protect public health; control water quality; conserve fisheries, aquatic habitats, and recreation; and protect instream and downstream water uses. The policy for consumptive use makeup presently is enforced by Pennsylvania for municipal water supply users along the river and for all users who withdraw from reservoirs in the Monongahela River Basin. This policy is under review to include all water users along the Monongahela River in Pennsylvania.

Chapter V. Water-Related Impacts

A. SRC–II Versus Other Offstream Uses

The SRC–II project will be a significant new water consumer. The SRC–II demonstration project is estimated to account for half of the new offstream consumptive uses from 1980 to 1990 and 7 percent of the total offstreams consumptive uses (existing and new) by 1990. The commerical project is estimated to account for 44 percent of the new offstream consumptive uses from 1980 to 2020 and 10 percent of the total offstream consumptive uses by 2020.

Navigation

For this assessment, the SRC–II coal traffic on the Ohio and Monongahela Rivers is currently projected to be 6000 tpd from 1985 to 1989 when the demonstration SRC–II is in operation and 30,000 tpd from 1990 to 2020 when the commercial SRC–II is in operation. The Corps estimated streamflow reqirements for projected navigation on the Monogahela River, both with and without coal barge traffic for the SRC–II project. Table 4 presents these requirements. Flow estimates are based on existing locks, current operating practices, and average tow size.

Table 4.—*Streamflow Requirements for Projected Navigation on the Monongahela River*

[In cubic feet per second]

Lock and dam	Minimum navigation flows	1985		1990		2020	
		Without SRC–II	With Demo. SRC–II	Without SRC–II	With Comm. SRC–II	Without SRC–II	With Comm. SRC–II
2	750	174	184	184	238	[1]264	[1]264
3	NA	111	116	123	[1]138	[1]136	[1]136
4	315	185	195	206	257	247	264
Maxwell	325	314	327	[2]290	[2]350	[2]325	[2]385
7	340	75	79	[2]80	[2]80	[2]60	[2]80
8	340	88	100	103	[1]108	[1]108	[1]108
Morgantown	NA	75	75	80	80	83	NA
Hildebrand	NA	84	84	87	87	90	NA
Opekiska	340	71	71	73	73	74	NA

[1]Demand exceeds estimated economic lock capacity.
[2]Includes conservation measures proposed by Corps.
[3]Demand exceeds estimated lock capacity by 1988 with SRC–II traffic.

NA Not analyzed for this assessment.

During the 1980's the Corps intends to develop a water conservation plan that includes improvements to reduce water losses in the lock and dam system. These improvements would reduce the flow required to support navigation at Maxwell L&D from 341 cfs to 290 without SRC–II traffic and from 403 to 350 cfs with SRC–II traffic by 1990. By 2020, the required navigation flow at Maxwell will be 325 cfs without SRC–II and 385 cfs with SRC–II. The Corps reports that the Maxwell L&D will remain the critical flow site, even it other locks are enlarged in the future. Maxwell currently has the largest lock on the Monongahela River.

Table 5 summarizes the estimated water availability of the Monongahela River for selected needs in 1990 and 2020. "Without SRC–II" shows the estimated streamflow availability (or deficit) for existing basin conditions, projected instream flow requirements for water quality and navigation, and estimated offstream consumption for all uses, excluding SRC–II. The streamflows have not been adjusted for curtailment of offstream uses during low-flow conditions or augmentation from Stonewall Jackson Reservoir.

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Table 5

ESTIMATED WATER AVAILABILITY[a/]
SURPLUS (+)/DEFICIT (-) in cfs

-1990-

NEED	LOW FLOW COMPARISON	PROJECT SITE/L&D 8		MAXWELL L&D		L&D 4	
		WITHOUT SRC-II	WITH SRC-II	WITHOUT SRC-II	WITH SRC-II	WITHOUT SRC-II	WITH SRC-II
TOTAL DISSOLVED SOLIDS	7-day, 10-year	NS	NS	NA	NA	- 846	- 855
DISSOLVED OXYGEN	7-day, 10-year	+13	+4	NA	NA	+ 244	+ 23
NAVIGATION:	7-day, 10-year	+255	+246	+275	+266	+ 438	+ 429
Without SRC-II	7-day, 50-year	+245	+236	+150	+141	+ 298	+ 289
Demo. Traffic	Min. Navig. Flow	+235	+226	- 20	- 29	+ 103	+ 94
With	7-day, 10-year	-	+241	+262	+253	+ 397	+ 419
SRC-II	7-day, 50-year	-	+231	+137	+128	+ 257	+ 279
Demo. Traffic	Min. Navig. Flow	-	+221	- 33	- 42	+ 62	+ 84

-2020-

TOTAL DISSOLVED SOLIDS	7-day, 10-year	NS	NS	NA	NA	-1236	-1251
DISSOLVED OXYGEN	7-day, 10-year	+ 6	- 17	NA	NA	+ 24	+ 9
NAVIGATION:	7-day, 10-year	+243	+220	+284	+261	+ 385	+ 362
Without SRC-II	7-day, 50-year	+233	+210	+159	+136	+ 245	+ 222
Comm. Traffic	Min. Navig. Flow	+223	+200	- 11	- 34	+ 50	+ 27
With	7-day, 10-year	-	NA	+224	+201	NA	NA
SRC-II	7-day, 50-year	-	NA	+ 99	+ 76	NA	NA
Comm. Traffic	Min. Navig. Flow	-	NA	- 71	- 94	NA	NA

a/ Low-flow augmentation at Stonewall Jackson Reservoir not included.

NS: No standard.

NA: Not analyzed for this assessment.

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Maxwell L&D will be the critical lock in the Monongahela River navigation system during low-flow conditions. Except for Maxwell L&D, current projections indicate that the Monongahela River can satisfy navigation flow requirements through 2020, even with the added SRC–II barge traffic and offstream uses. However, as Table 5 illustrates, projected drought of record conditions without further upstream augmentation would result in flows 13 percent and 29 percent below minimum navigation needs at Maxwell L&D for 1990 and 2020, respectively. Implementation of the Corps water conservation plan will not fully offset the estimated streamflow deficits.

The projected demands on the existing navigation system will equal the economic capacity of L&D 7 by 1988, if all coal for the SRC–II demonstration project is shipped by barge.

C. *Water Quality*

Low-flow, 7-day, 10-year conditions combined with projected off-stream uses may leave insufficient flow in the river to meet water quality standards of West Virginia and Pennsylvania.

In West Virginia, the 7-day, 10-year low flow at L&D 8 is 360 cfs (Table 1). With the West Virginia dissolved oxygen standard based on 345 cfs at L&D 8, an estimated 15 cfs "surplus" is available for other uses. The SRC–II project and increased water use by the muncipal, industrial, and agricultural sectors will consume an estimated 11 cfs in 1990 and 32 cfs in 2020. Thus, at L&D 8, the SRC–II demonstration project consumption will still leave 4 cfs "surplus" in the stream by 1990; however, the SRC–II commerical project will create a 17 cfs "deficit" by 2020. The West Virginia Department of Natural Resources anticipates that low-flow augmentation from Stonewall Jackson will compensate for this deficit.

At L&D 4 in Pennsylvania, projected streamflows with the SRC–II project will be sufficient to meet the dissolved oxygen standard in 1990 and 2020, but not the TDS standard (with or without SRC–II). The demonstration project will account for about 1 percent of the 855 cfs deficit in 1990 and the commerical project will account for about 2 percent of the 1251 cfs deficit in 2020.

A preliminary analysis of flow projections at L&D 2 indicates that flow augmentation from the Youghiogheny River will be sufficient to meet Pennsylvania water for water quality standards at that L&D.

Estimated future streamflows at L&D 8 will be sufficient to meet the West Virginia pH standard. Pennsylvania has not established a relationship of pH to flow.

Because the navigation system maintains a minimum depth of 9-feet, it is assumed that minimal instream low-flow needs for fish, wildlife, and recreation will be satisfied if water quality and navigation requirements are met.

The Pennsylvania Department of Environmental Resources recommends that the present authorized allocation of water quality and water supply from Stonewall Jackson Reservoir should not be considered available for consumptive use by the SRC–II project. Rather, the State would prefer the development of a reservoir management plan that would use other designated storage (e.g., recreational or flood control storage) to provide releases for SRC–II consumptive use. Similar potentials may exist at Tygart Reservoir and other existing reservoirs in West Virginia. If such an option is not found feasible, Pennsylvania would then recommend further exploration of augmenting the size of Tygart or Stonewall Jackson Reservoir or providing additional storage in Stonecoal Reservoir as a means for providing releases to support downstream consumptive water users, including the SRC–II project.

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Federal Register

Vol. 45, No. 164

Thursday, August 21, 1980

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202-783-3238	Subscription orders and problems (GPO)
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523-5237	Corrections
633-6930	Public Inspection Desk
523-5227	Index and Finding Aids
523-5235	Public Briefings: "How To Use the Federal Register."

Code of Federal Regulations (CFR):

523-3419	
523-3517	
523-5227	Index and Finding Aids

Presidential Documents:

523-5233	Executive Orders and Proclamations
523-5235	Public Papers of the Presidents, and Weekly Compilation of Presidential Documents

Public Laws:

523-5266	Public Law Numbers and Dates, Slip Laws, U.S.
-5282	Statutes at Large, and Index
275-3030	Slip Law Orders (GPO)

Other Publications and Services:

523-5239	TTY for the Deaf
523-5230	U.S. Government Manual
523-3408	Automation
523-4534	Special Projects
523-3517	Privacy Act Compilation

FEDERAL REGISTER PAGES AND DATES, AUGUST

51167-51538.....1
51539-51754.....4
51755-52138.....5
52139-52354.....6
52355-52768.....7
52769-53074.....8
53074-53436.....11
53437-53800.....12
53801-54008.....13
54009-54298.....14
54299-54710.....15
54711-55136.....18
55137-55418.....19
55419-55688.....20 [1]
55689-56004.....21

[1] **Note:** Between 45 FR 55433 and 55465, August 20, 1980, there were several pagination errors. Please refer to the cover of the issue for Thursday, August 21, 1980, for explanation.

CFR PARTS AFFECTED DURING AUGUST

At the end of each month, the Office of the Federal Register publishes separately a list of CFR Sections Affected (LSA), which lists parts and sections affected by documents published since the revision date of each title.

3 CFR

Executive Orders:
11790 (*See* 12231).....52139
12230.....51167
12231.....52139
12232.....53437

Proclamations:
4776.....51539
4777.....53075
4778.....53439
4779.....53441
4780.....53443
4781.....53445

Administrative Orders:

Presidential Determinations:
No. 80-25 of
August 8, 1980.....54299

Memorandums:
July 31, 1980.....51169, 51171, 51173

4 CFR

21.....55689

5 CFR

Ch. XIV.....51541
213.....55137-55140
297.....52769
410.....51755
581.....53447

Proposed Rules:
339.....53481
359.....51214
432.....53481
752.....53481
831.....53481
930.....53485

6 CFR

705.....51175
706.....51541, 52769

7 CFR

2.....52355
6.....54301
210.....51175
245.....52770
272.....53448
273.....53448
282.....54638
301.....51176
319.....53449
331.....51755, 53450, 54302
401.....54711
418.....54718
419.....54720
427.....54722
430.....54723
437.....54711
722.....51755
800.....55118
801.....55118
802.....55118
908.....52356, 53801, 54063, 55140, 55692
910.....51177, 52771, 54304
916.....53450
917.....51179, 53450, 54724
919.....54305
921.....51180
922.....53451
924.....51180
926.....52772
946.....52141
948.....51182
958.....52141
967.....52143
991.....55415
993.....54064, 54725
1137.....51542
1421.....53801, 54305, 55141-55159
1427.....53077, 55166
1446.....51756
1701.....54307
2853.....51757
2890.....54307
2891.....54307
2892.....54307
2893.....54307
2894.....54307
2895.....54307
2896.....54307
2897.....54307
2898.....54307
2899.....54307

Proposed Rules:
29.....51572
272.....51216, 53792
273.....51216, 53066, 53792
301.....52816
404.....51573
427.....54346
431.....53486
722.....52817
800.....52339
910.....53487
985.....51818
1001.....54066
1065.....55213
1435.....54347
1464.....51579
1701.....54354
1492.....52342
1990.....51818
2858.....51217
2871.....51217

8 CFR

238.....54310
264.....52143

Proposed Rules:
Ch. I.....51832

214.....51580

9 CFR

78.....52772
92.....52773
318.....54310
381.....54310

Proposed Rules:

94.....52818
317.....53002
318.....51832
381.....53002

10 CFR

2.....54725
40.....55419
50.....55402, 55413
70.....55402
110.....51184
211.....55374
212.....52112, 54325
220.....55374
430.....53488
445.....51763
456.....53434
500.....53682
501.....53682
504.....53682
1050.....53972

Proposed Rules:

2.....53972
50.....54662
205.....51833
211.....54662
212.....54069, 54688, 54694, 55467
378.....51581
430.....53714
456.....53422
500.....53368, 55467
503.....53368, 55467
504.....53368, 55467
505.....53368, 55467
506.....53368, 55467
799.....54264

11 CFR

100.....52356
110.....52356

12 CFR

7.....53080
201.....52144, 54009
217.....55692
220.....53452
225.....54326
265.....54011
303.....54326
563.....55693

Proposed Rules:

Ch. I.....52166
Ch. II.....51581
Ch. VI.....55213
Ch. VII.....55214
205.....54070
303.....52819
309.....52819
525.....52173
541.....52173, 52177, 55750
544.....55750
545.....52173, 52177 55750
561.....52177, 55750
563.....52173, 52177, 55750
563c.....55750
569a.....55750
577.....55750
578.....55750

13 CFR

301.....55696
303.....55696
304.....55696
307.....55696
309.....55420
311.....55696

Proposed Rules:

101.....51763, 53081
107.....55468
108.....53835
124.....55468

14 CFR

39.....51543–51546, 52357, 53081, 53084, 53086, 54012–54014, 54725–54732, 55704–55710
71.....51546, 53086–53090, 54015, 54027, 54028, 54733, 55710, 55711
73.....54028
91.....51547
97.....52358
121.....51547
127.....51547
135.....51547
201.....53453
207.....53358
208.....53363
211.....53453
212.....53364
214.....53365
241.....53366
374a.....53453
375.....51838
385.....53454

Proposed Rules:

Ch. I.....53161, 53162, 54766
39.....53162, 54071, 54072, 55754
45.....53163, 54766
71.....51587–51590, 52396, 53163, 54072–54080, 54766, 55755–55760
73.....51591
75.....52396, 54081
121.....53316, 55760
123.....55760
127.....55760
135.....53316, 55760
207.....53488
208.....53488
212.....53488
214.....53488
255.....52820

15 CFR

17a.....54028
200.....55166
359.....55711
373.....54031
378.....53090

Proposed Rules:

19.....51592

16 CFR

13.....52776, 52778, 53455, 55171, 55421
305.....53340
436.....51763, 51765
455.....52750
460.....54702
1019.....53036

Proposed Rules:

13.....51593, 51596, 55219
239.....51838
406.....55223
441.....53839
705.....51218

17 CFR

Ch. I.....54032
7.....51520

Proposed Rules:

Ch. I.....55469
1.....51598
4.....51600

18 CFR

2.....53091, 53099
35.....55714
154.....53091
270.....53091, 53099
271.....53099
277.....53116
281.....54733
282.....52359, 54741
290.....54033
292.....52779
375.....53456

Proposed Rules:

2.....54354, 55761
154.....54354
260.....54082
271.....51219, 54085
273.....51219, 54085
274.....51219, 54085
301.....51614

19 CFR

353.....52780
355.....54035

Proposed Rules:

Ch. I.....51490
123.....55474
177.....54085
207.....54086

20 CFR

Ch. III.....53806
404.....52078, 55566
416.....52078, 54742, 55566

Proposed Rules:

Ch. II.....51615

21 CFR

172.....51766
175.....51184
176.....51767
193.....51768, 53457, 53458, 54035
510.....54327, 54328
520.....52781
540.....54329
555.....54327
558.....53457, 54328
561.....55715
740.....55170
884.....51185, 51186
1306.....54329

Proposed Rules:

Ch. II.....51832, 52397
101.....53023
310.....54354
346.....54354
600.....52821
606.....52821
610.....51226
660.....51226

22 CFR

2.....55716
220.....54751
221.....54751
222.....54751

Proposed Rules:

Ch. II.....53164–53182

23 CFR

657.....52365, 55716
658.....52365, 55716

Proposed Rules:

Ch. I.....55763
625.....51720
652.....51720
663.....51720

24 CFR

200.....54198
203.....51769, 51770
207.....51769, 51771
213.....51771
220.....51769, 51770
221.....51770, 51771
222.....51770
226.....51770
235.....51770, 53806
265.....54204
279.....51510
570.....55968
571.....51516
590.....52762
803.....54330
869.....52371
885.....51186
888.....54330
1710.....52144

Proposed Rules:

51.....55223
570.....51227
804.....54087
805.....54087
841.....54087
865.....51228
866.....51615
886.....51228
888.....51228
889.....51229

25 CFR

Proposed Rules:

171.....53164
172.....53164
173.....53164
177.....53164
182.....53164
231.....54331

26 CFR

1.....52373, 52782
26.....53123
26a.....51771
48.....52800
54.....52782

Proposed Rules:

1.....52399, 52824
14.....52824
26.....51840
301.....55764

27 CFR

Proposed Rules:
Ch. I..... 51496
5..... 54087
13..... 54087
19..... 52407, 54087
70..... 52407
170..... 54087
173..... 54087
186..... 54087
194..... 54087
195..... 54087
196..... 54087
197..... 54087
200..... 54087
201..... 54087
211..... 54087
212..... 54087
213..... 54087
231..... 54087
240..... 52407, 54087
245..... 52407
250..... 52407, 54087
251..... 54087
252..... 54087
270..... 52407
275..... 52407

28 CFR

0..... 52145
18..... 54752
42..... 54036
31..... 53772

Proposed Rules:
Ch. I..... 51506, 51832
16..... 52183
42..... 54770
50..... 52183

29 CFR

11..... 51187
40..... 51192
102..... 51192
575..... 55175
1440..... 55394
1625..... 51547
1910..... 54333
1913..... 54333
1952..... 51775, 53457, 54334
1999..... 51187
2520..... 51446
2550..... 51194
2617..... 55636

Proposed Rules:
Ch. XIV..... 51229
1960..... 54355
2520..... 51231, 52824, 54370
2530..... 51231, 52824, 54370
2550..... 51231, 51840

30 CFR

Ch. VII..... 51547, 52834
211..... 53128
700..... 54752
762..... 52375
785..... 54752
800..... 52306
801..... 52306
805..... 52306
806..... 52306
807..... 52306
808..... 52306
816..... 54752
817..... 54752
820..... 54752

Proposed Rules:
Ch. VII..... 52407, 52408, 53180, 53839, 54371, 54372, 55477–55479, 55767
104..... 54656
250..... 52408, 53840
700..... 52410
701..... 52410
715..... 53183
732..... 53489
784..... 51240
816..... 53183
817..... 51240, 53183
884..... 53489
924..... 53841
926..... 53489

31 CFR

341..... 53393
346..... 53393, 55178

32 CFR

706..... 54753
763..... 51776
853..... 52800
865..... 55422
888d..... 52145

33 CFR

110..... 54754, 54755
117..... 51550
161..... 53135
164..... 54037
165..... 53158
175..... 54042
207..... 51551, 51555
401..... 52376

Proposed Rules:
117..... 51617, 51618
174..... 55768
209..... 54770

34 CFR

64..... 353412, 53414
709..... 53788

Proposed Rules:
100..... 52052, 53841
797..... 54000

36 CFR

1228..... 54334

Proposed Rules:
7..... 51618
14..... 54771
1190..... 55006
1202..... 51843

37 CFR

304..... 51197

38 CFR

17..... 53807, 55716
21..... 51777
36..... 53807, 55720

39 CFR

Proposed Rules:
111..... 51846

40 CFR

35..... 51484, 53382
51..... 52676
52..... 51198, 51199, 52148, 52676, 53460, 53475, 53476, 53809, 54042, 54336, 55178–55180, 55197, 55422, 55720
80..... 55136
81..... 53147, 54052
86..... 53400
122..... 52149
122–124..... 55386
124..... 52676
180..... 51200, 51781, 51782, 53477, 53478, 54053, 54340 55187–55199, 55721
260–265..... 55386
413..... 55200

Proposed Rules:
6..... 53187
35..... 53187
50..... 55066, 55083
52..... 51619, 51620, 52184, 52834, 52841, 53490, 53491, 54088, 54089, 54372, 54772, 55227–55230, 55480, 55484,
58..... 54772, 54773, 55230
60..... 54385
61..... 53842
80..... 54090
81..... 52841, 55230, 55231
122–124..... 55237
162..... 52628, 54094
164..... 52628
167..... 52184
169..... 52184
180..... 51854
260–265..... 55232
408..... 52411
410..... 52185
717..... 51855
720..... 54642

41 CFR

Ch. 44..... 55346
Ch. 101..... 51201, 53149
1–1..... 55721
1–3..... 55721
3..... 53806
5A–7..... 55723
5A–26..... 55723
5A–76..... 55723
7–6..... 55724
7–7..... 55724
7–12..... 54755
8–3..... 55425
101–26..... 55726
128–1..... 55727

Proposed Rules:
101–6..... 55769
101–17..... 52842

42 CFR

Ch. I..... 53806
Ch. III..... 53806
Ch. IV..... 53806
57..... 51201, 51205, 55727
58..... 51209, 51556
62..... 55426
110..... 55122
405..... 51783, 54757
455..... 51559

Proposed Rules:
51..... 53492
72..... 51241
405..... 54774
460..... 53189
461..... 53189

43 CFR

4100..... 53154
8351..... 51740

Proposed Rules:
2560..... 52303

Public Land Orders:
5741..... 53155
5742..... 51787
5743..... 51787
5744..... 51788
5745..... 52382
5746..... 52382

44 CFR

64..... 52383, 55433, 55436
65..... 51212, 51788, 52384, 55438
67..... 51213, 51559, 51789, 51796, 55448
70..... 54760–54764
205..... 53334, 53956
322..... 53479

Proposed Rules:
6..... 51426
67..... 51855–51858, 52416, 52417, 52422, 52427, 54774–54776, 55232–55236, 55483

45 CFR

Subtitle A..... 53806
Ch. II..... 53806
Ch. III..... 53806
Ch. XIII..... 53806
64..... 53412
71..... 54765
151..... 53996
185..... 54004
121i..... 52130
121o..... 52130
121p..... 52130
121q..... 52130
121r..... 52130
228..... 55382
801..... 52800
1050..... 53155
1060..... 51561
1480..... 52782

Proposed Rules:
121q..... 52136
190..... 51243

46 CFR

30..... 52386
61..... 52386
151..... 52386
520..... 55729

Proposed Rules:
11..... 54776
93..... 54095

47 CFR

Ch. I..... 52389
1..... 55200
13..... 52154
22..... 52149
68..... 52151, 54341
73..... 51561–51563, 52152, 52800, 52801, 53156, 53818, 53821, 55201–55205, 55731
74..... 51563
76..... 52153
81..... 52154
83..... 52154
87..... 52154
90..... 51811, 55200

94.....55731
95.....55200
97.....51564

Proposed Rules:

Ch. I.....51251
2.....51251, 51252, 53843
13.....54778
15.....51251, 54784, 55775
21.....51252
22.....53843
63.....55777
73.....51624, 52843, 52845, 52846, 52848, 53843, 54786, 55237–55244, 55491
74.....51252
81.....54778
83.....54778
87.....54778
90.....53843, 53844, 55245
94.....51252, 55775

48 CFR

Proposed Rules:

9.....51253

49 CFR

1.....54054
172.....55734
571.....51569, 52365, 53157
840.....54055
941.....52389
1002.....51213, 52158, 52802
1003.....51213, 52158
1033.....51812–51815, 52158, 52160, 52161, 52803, 53157, 53824, 53826, 54344
1045A.....51213, 52158
1056.....51213, 52158, 55465
1062.....51213, 52158
1100.....51213, 52158
1120A.....53827, 55205
1130.....51213, 52158
1150.....51213, 52158
1249.....55209
1309.....52161
1310.....52161
1331.....55734

Proposed Rules:

Ch. X.....53846
171.....54097
173.....54097
178.....54097
398.....51625
571.....51626, 51628
1039.....54111, 54385
1080.....53190
1100.....55246
1102.....51858
1116.....52186

50 CFR

17.....52803, 52807, 53968 54678, 55654
18.....54056
20.....55960
26.....52391, 55742
27.....55742
32.....52392, 52393, 54057–54060, 54344, 55210, 55743, 55746–55749
285.....53479
611.....53831
652.....53480
653.....52810
661.....53832

Proposed Rules:

13.....52849
17.....52849, 53495, 54111, 54112, 54682, 54685
20.....53982
32.....52163
216.....51254
265.....51858
285.....52853
611.....51254, 53500, 53847
655.....51254
661.....51861, 54113

AGENCY PUBLICATION ON ASSIGNED DAYS OF THE WEEK

The following agencies have agreed to publish all documents on two assigned days of the week (Monday/Thursday or Tuesday/Friday). This is a voluntary program. (See OFR NOTICE 41 FR 32914, August 6, 1976.)

Monday	Tuesday	Wednesday	Thursday	Friday
DOT/SECRETARY	USDA/ASCS		DOT/SECRETARY	USDA/ASCS
DOT/COAST GUARD	USDA/APHIS		DOT/COAST GUARD	USDA/APHIS
DOT/FAA	USDA/FNS		DOT/FAA	USDA/FNS
DOT/FHWA	USDA/FSQS		DOT/FHWA	USDA/FSQS
DOT/FRA	USDA/REA		DOT/FRA	USDA/REA
DOT/NHTSA	MSPB/OPM		DOT/NHTSA	MSPB/OPM
DOT/RSPA	LABOR		DOT/RSPA	LABOR
DOT/SLSDC	HHS/FDA		DOT/SLSDC	HHS/FDA
DOT/UMTA			DOT/UMTA	
CSA			CSA	

Documents normally scheduled for publication on a day that will be a Federal holiday will be published the next work day following the holiday.

Comments on this program are still invited. Comments should be submitted to the Day-of-the-Week Program Coordinator, Office of the Federal Register, National Archives and Records Service, General Services Administration, Washington, D.C. 20408

REMINDERS

The "reminders" below identify documents that appeared in issues of the **Federal Register** 15 days or more ago. Inclusion or exclusion from this list has no legal significance.

Rules Going Into Effect Today

FEDERAL COMMUNICATIONS COMMISSION

49934 7-28-80 / Simplification of marine radio rules for recreational boaters

47429 7-15-80 / Table of assignments, Sebring, Fla.

LABOR DEPARTMENT

Occupational Safety and Health Administration—

35212 5-23-80 / Provisions for access to employee exposure and medical records

35284 5-23-80 / Rules of practice and procedure concerning OSHA access to employee medical records

PERSONNEL MANAGEMENT OFFICE

48847 7-22-80 / Processing garnishment orders for child support and/or alimony

List of Public Laws

Note: No public bills which have become law were received by the Office of the Federal Register for inclusion in today's **List of Public Laws.**

Last Listing August 14, 1979

Just Released

CODE OF FEDERAL REGULATIONS

(Revised as of July 1, 1980)

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